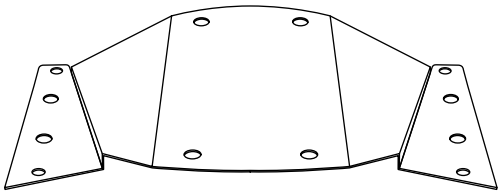
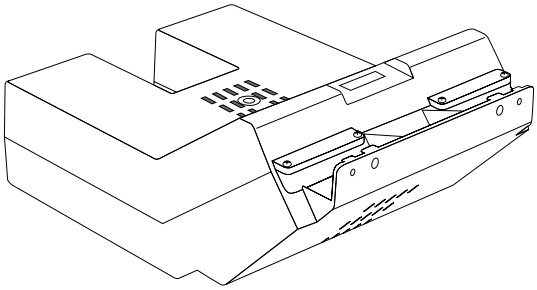
EXPEDITION

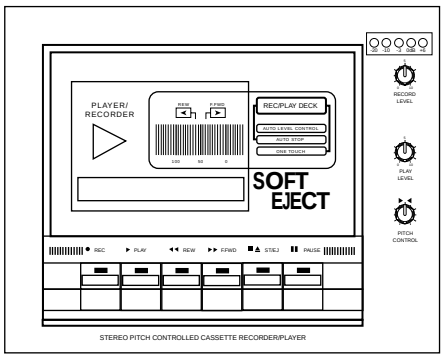
ACCESSORIES



- **MP1020**
  Mounting Plate



- **RB2030**
  Rechargeable Battery
- **TD30**
  Cassette Tape Deck
- **Pole Mounting**
  Procedures and Precautions



OWNERS MANUAL

SAMSON®

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Printed October, 2000

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Introduction

Welcome to Samson Expedition—the portable audio system for the new millennium! This exceptionally versatile system offers the perfect solution wherever you need portable, high-quality audio: as a main PA system or as onstage monitors in clubs and performance halls; in houses of worship; as a sound system for business presentations, mobile DJs at parties, or aerobics instruction; and for use in outdoor environments such as parks, beaches and flea markets. What's more, every Expedition system comes with a built-in telescoping handle and wheels, making it easy to take professional audio with you wherever you go!

There are three different Samson Expedition systems detailed in this manual. All utilize the same lightweight yet rugged two-way speaker enclosure that pairs a custom designed 12" woofer with a matched 1" compression driver. The Expedition EX10 is a passive 8-ohm enclosure that can be used with any external power amplifier rated at up to 250 watts. The Expedition EX20 is a powered version that includes a bi-amped power cell along with an active crossover, speaker protection circuitry and built-in limiting. And the Expedition EX30 is designed as a total all-in-one portable PA system, adding a four-channel stereo mixer—complete with digital effects—to the equation. In addition, a number of expansion options are available, including a 500-watt active subwoofer (our EX500); a rechargeable Lead-Acid GelCel battery pack; and a rear-panel mountable cassette recorder with pitch control. There's even a prewired custom compartment that accommodates any of three different Samson wireless receivers!

In this manual, you'll find a more detailed description of the features of all Expedition series Accessories, as well as step-by-step instructions for installation and full specifications. If your Expedition Accessory was purchased in the United States, you'll also find a warranty card enclosed—don't forget to fill it out and mail it! This will enable you to receive online technical support and will allow us to send you updated information about this and other Samson products in the future. If your Expedition Accessory was purchased outside of the U. S., contact your local distributor for warranty details. Also, be sure to check out our website (http://www.samsontech.com) for complete information about our full product line.

Serial number: _____

Date of purchase: _____

Should your unit ever require servicing, a Return Authorization number (RA) must be obtained before shipping your unit to Samson. Without this number, the unit will not be accepted. Please call Samson at 1-800-3SAMSON (1-800-372-6766) for a Return Authorization number prior to shipping your unit. Please retain the original packing materials and if possible return the unit in the original carton and packing.

MP1020 Mounting Plate

WARNING! Samson assumes no responsibility or liability for either the structure or OmniMount® hardware for the mounting of Expedition cabinets. Installation should be done by qualified personnel.

The Samson Expedition MP1020 Mounting Plate is designed to be used in configuration with OmniMount® models 100-STMP and 100-WB. In fixed installations where you wish to mount the Expedition to a ceiling, use the OmniMount® model 100-STMP mount. In fixed installations where you wish to mount the Expedition to a wall, use the OmniMount® model 100-WB mount. Once you've decided where your Expedition cabinet(s) will be mounted, read the instructions that accompany the OmniMount® and then follow the steps below.

Parts list:

1	MP1020 mounting plate	4	M8 x 20 phillips head machine screws
4	M6 x 25 phillips head machine screws	4	M8 spring washers
4	M6 spring washers	4	M8 nuts

Instructions for Assembly

1. Remove the fly point covers, by lifting the tab at the rear of the covers, from the top of the Expedition cabinet revealing the fly points. (figure 1)

2. Securely fasten the OmniMount® Clamp Plate to the Samson MP1020 Mounting Plate with the four M8x20 phillips head machine screws, four M8 spring washers and four M8 nuts supplied with the MP1020 as in figure 2.

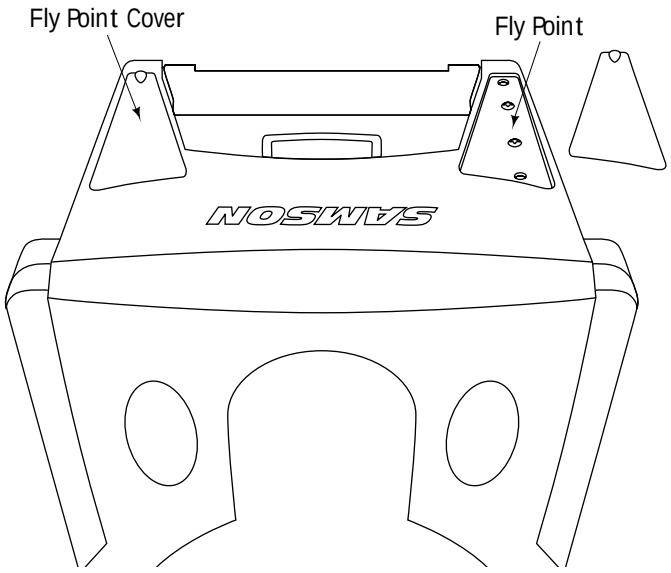


figure 1

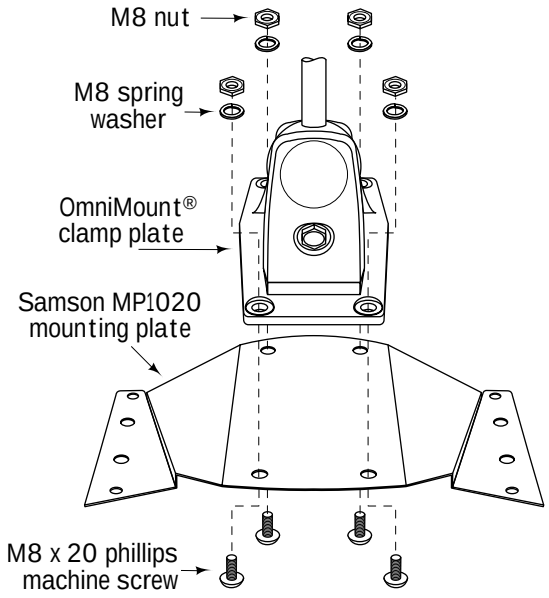


figure 2

3. Using the four M6 phillips head machine screws and four M6 spring washers supplied with the MP1020, securely fasten the MP1020 Mounting Plate to the top of the Expedition as in figures 3 and 4.

4. Follow the OmniMount® instructions to complete installation.

MP1020 Mounting Plate

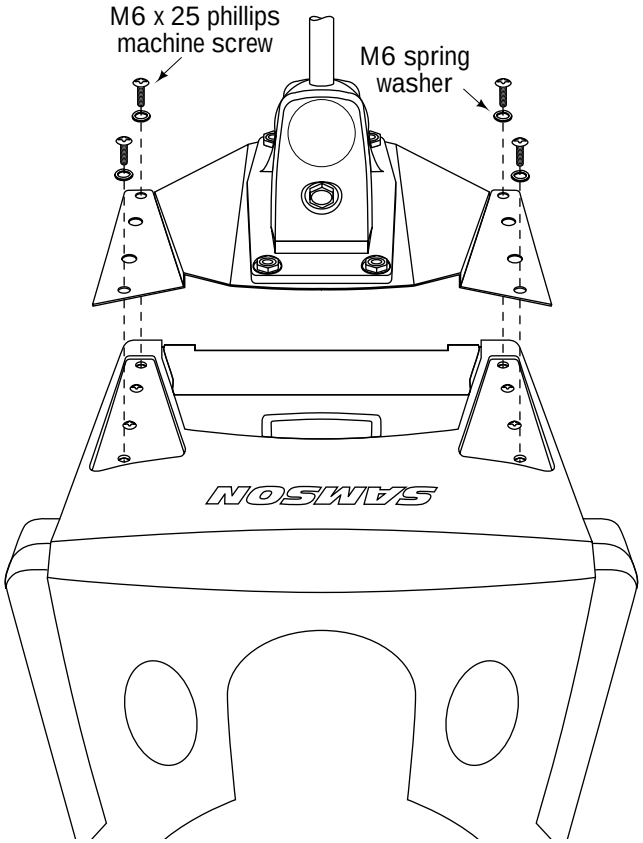


figure 3

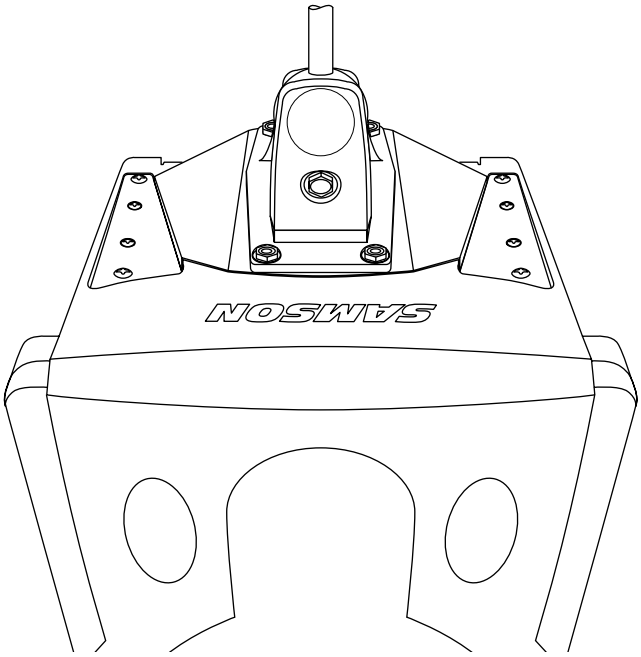
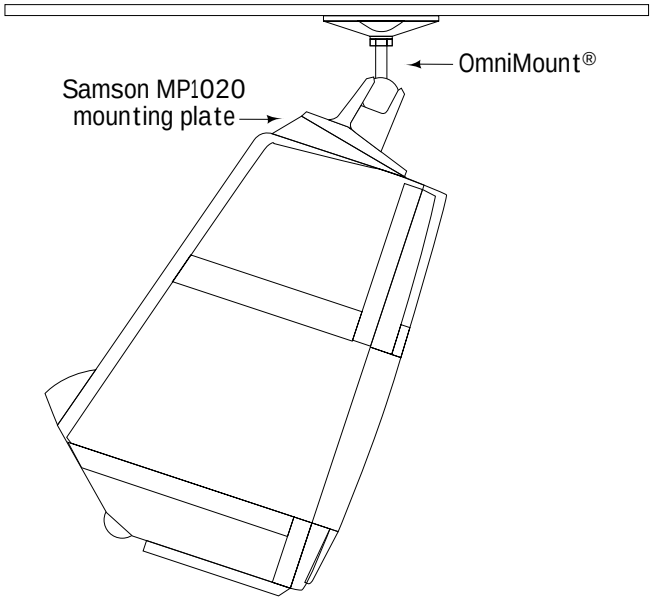
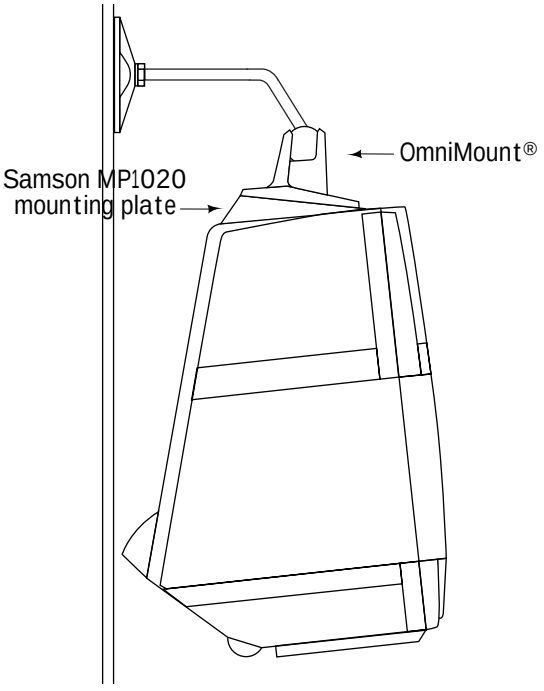


figure 4

In fixed installations where you wish to mount the Expedition to a ceiling, use the OmniMount model 100-STMP mount, as shown in the illustration below:



In fixed installations where you wish to mount the Expedition from a wall, use the OmniMount model 100-WB mount, as shown in the illustration below:



RB2030 Rechargeable Battery

The Samson RB2030 Rechargeable Battery is designed for Expedition EX20 and EX30 cabinets. The RB2030 incorporates four 12VDC, 3.3A Gel Cells. A fully charged RB2030 should supply power to the EX20 or EX30 for approximately 3–4 hours at a relatively high level of volume. Battery life of 7–8 hours can be obtained if a relatively low level of volume is used. **NOTE:** It is the actual volume (audio you are hearing), not the position of the volume controls, that is relative to battery life.

With proper care, your RB2030 will operate trouble free for many years. Please read the instructions carefully and note that your battery has been shipped uncharged.

Parts list:

1 RB2030 Gel Cell Battery
4 M4 x 14 Screws
4 M6 x 12 Screws

Instructions for Installation of Battery

1 With the rear of the Expedition cabinet facing you, lie the cabinet face down on a soft surface so as not to scratch the front grille. (figure 1)

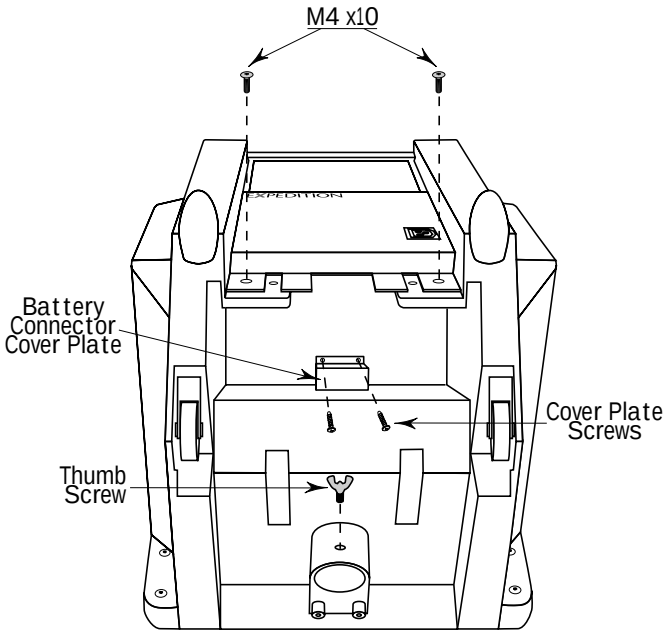


figure 1

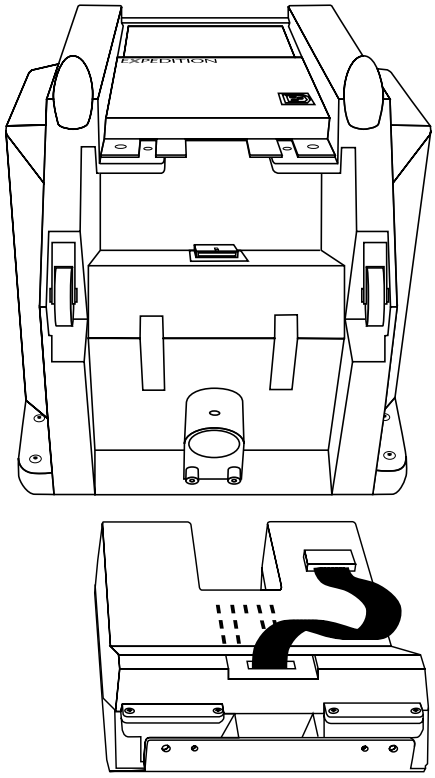


figure 2

2 Using a phillips screwdriver, remove the two screws and the Battery Connector Cover Plate. **Note:** retain the cover plate and screws for future use. Remove the two M4 x 10 lower rear panel screws (to be re-used in step 6) and pole mount thumb screw (figure 1).

3 Align the battery as in figure 2 and set its legs in the bottom of the EX20 or EX30 as in figure 3.

4 Connect the Battery supply cable as in figure 3. **IMPORTANT! Both the connectors on the supply cable (from the battery) and connector plug (on the cabinet) are keyed. Be sure to connect the cable correctly or you'll risk shorting the battery which may result in fire and/or internal amplifier failure.**

5 Lift the battery into place and screw the two M4 x 14 screws into the two outer holes and the two M6 x 12 screws in the inner holes on the battery lip. Use the two M4 x 10 screws (from step 2) to secure the bottom of the battery to the cabinet.

Charging the Battery

Before using the RB2030, the Battery must be fully charged. After following the instructions for installation, connect the EX20 or EX30 to an outlet and turn the unit on. The battery will take 8 hours to fully charge initially. Subsequent full charges can be achieved in 4 hours. The battery level meter on the rear panel of your EX20 or EX30 will show a level only when the AC cord is disconnected.
IMPORTANT: The RB2030 Battery must be fully charged after each use.

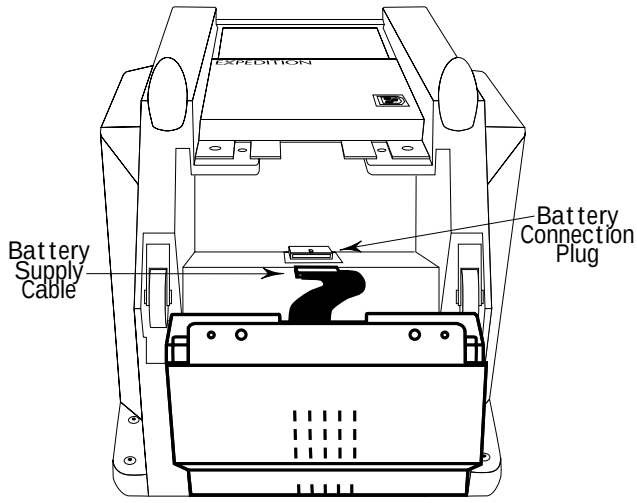


figure 3

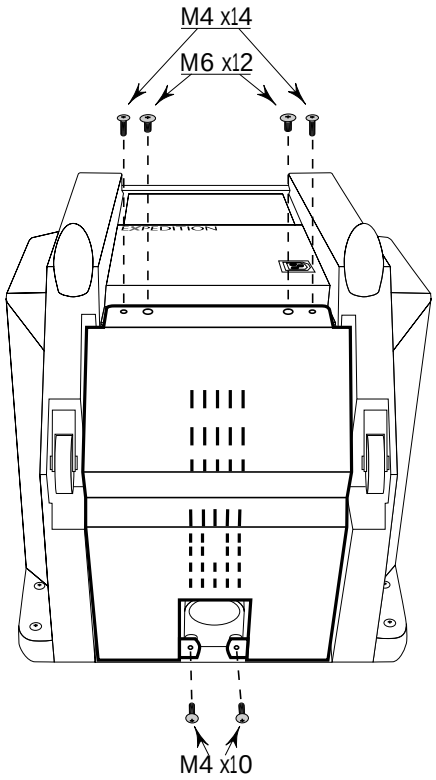


figure 4

TD30 Cassette Tape Deck

WARNING! Installation of the cassette deck should be done by qualified personnel.
Samson assumes no responsibility, personal liability or liability for Expedition cabinets.

Instructions for Installing the Cassette Tape Deck

1 Disconnect the power cord from the AC source and the Expedition cabinet.

2 With the rear of the Expedition cabinet facing you, lie the cabinet face down on a soft surface so as not to scratch the front grille. (figure 1)

3 Using a Phillips screwdriver, remove the Cassette Connection Access Plate screws, Access Plate and lower rear panel screws as in figure 1. Set aside screws for re-assembly and save the plate if the cassette has to be removed. The plate is not needed when the cassette is installed.

4 Lift the mixer panel from the bottom and disconnect the Switch Cable from connector marked CN206A, located on the lower circuit board, as in figure 2. This will allow you to lift the mixer higher giving you better access to the circuit boards.

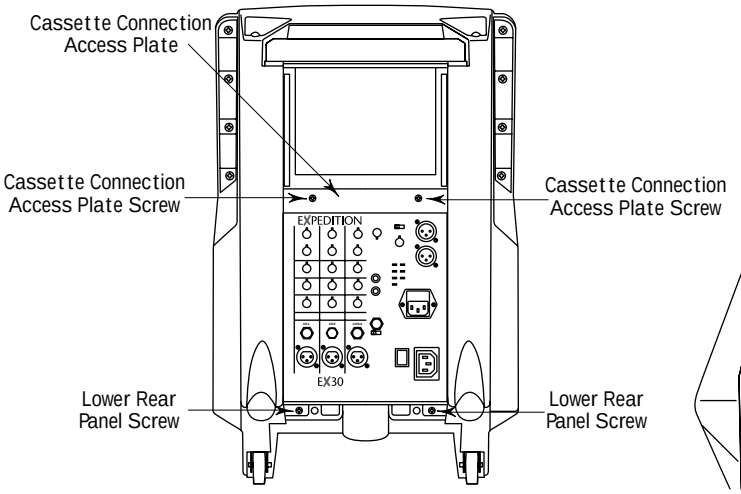


figure 1

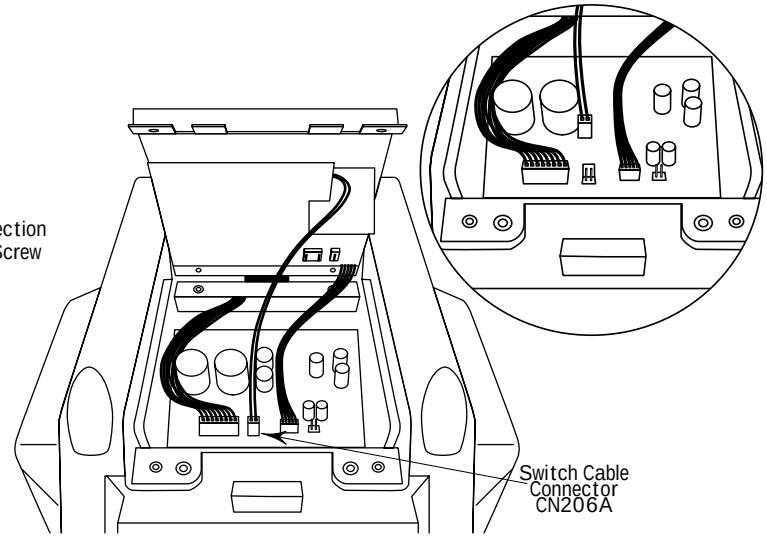


figure 2

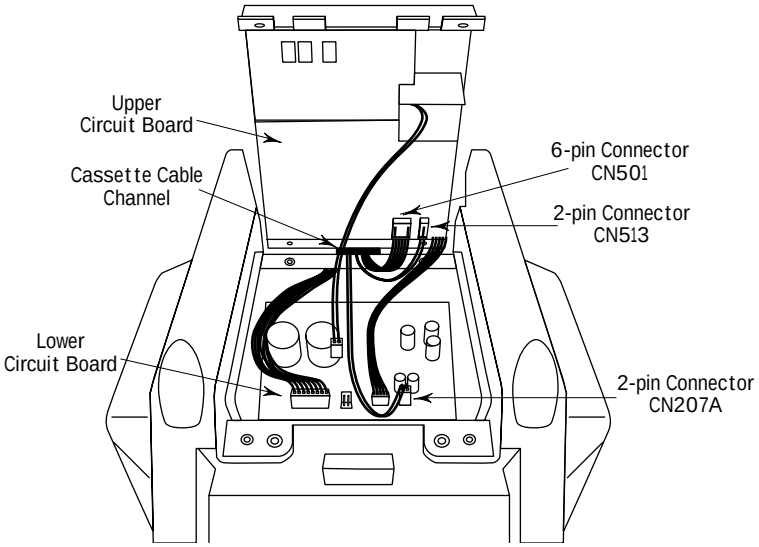


figure 3

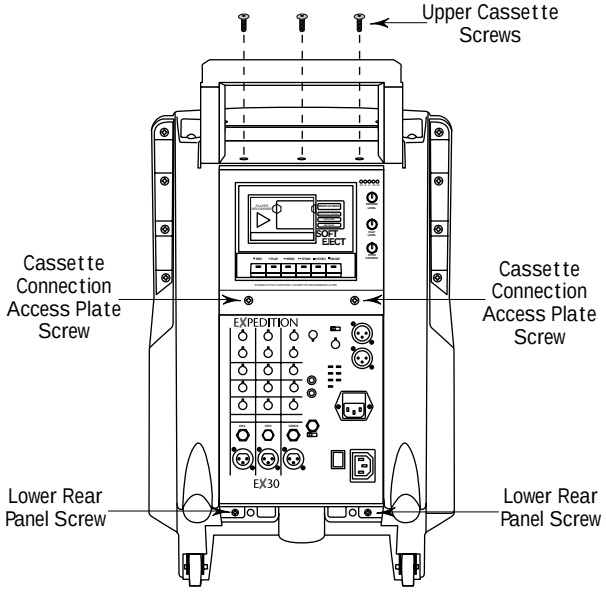


figure 4

5 Feed the cassette cables under the top of the mixer through the Cassette Cable Channel (figure 3) and make the following connections. (Be careful not to force the connections as all connectors are keyed and should only fit one way.)

a) Connect the 6 pin cable from cassette to the 6 pin connector located in the lower right corner of upper circuit board labeled CN501 (figure 3).

b) connect the 2 pin cable from cassette to the 2 pin connector located in the lower right corner of upper circuit board labeled CN513 (figure 3) This cable should be shorter of the two 2 pin cables

c) connect the 2 pin cable from cassette to the 2 pin connector located in the lower right corner of lower circuit board labeled CN207A. (figure 3).

6 While lowering the mixer into place reconnect the Switch Cable (removed in step 4, figure 2) to connector CN206A located on the lower circuit board.

7 Lie the mixer in place making sure the cables are contained within the mixer cavity. Lie the cassette in place (the lower cassette bracket should lie on top of the upper mixer bracket) making sure the cables from the cassette pass through the Cassette Cable Channel.

8 Partially screw the two lower rear panel screws into place . Partially screw the Cassette Connection Access Screws into place. Lift the handle revealing the upper cassette screw holes and screw the three supplied screws into place. (figure 4). Tighten all the screws. See the following instructions for cassette operation.

Cassette Operation

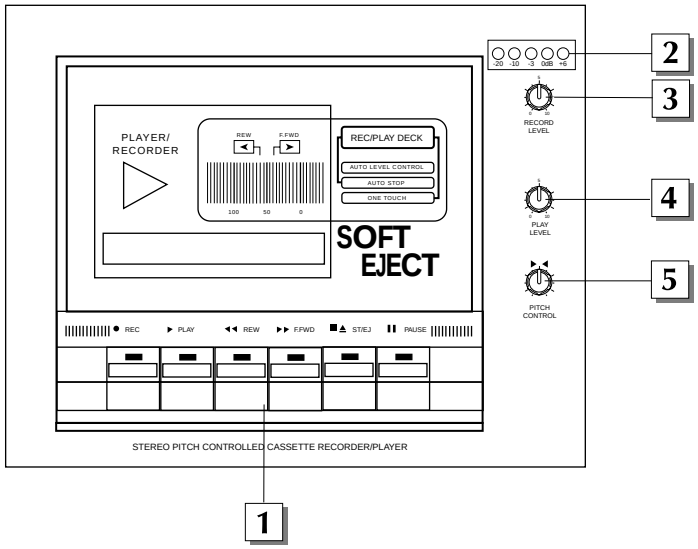
1: Transport controls - A set of standard transport controls, from left to right: Record, Play, Rewind, Fast Forward, Stop/Eject, Pause. Both the Record and Play buttons must be pressed in simultaneously to record .

2: Level meter - This five-segment bar meter shows the TD30 input level. Excursions into the red “+6 dB” segment may indicate tape overloading and distortion.

3: Record level control - Active only when recording. For optimum signal-to-noise ratio, set this control so that program material is usually at or around 0 VU on the Level meter (see #2 below).

4: Play level control - Sets the playback level. When installed in an EX30, the TD30 output signal arrives at mixer channels 3/4. See #6 on page 9 in this manual for more information.

5: Pitch control - In normal operation, leave this at the 12 o’clock position. When at the 12 o’clock position, the tape is played back at standard speed and pitch. When moved clockwise from the 12 o’clock position, the tape is played back at a faster speed (and higher pitch); when moved counterclockwise from the 12 o’clock position, the tape is played back at a slower speed (and lower pitch).



Wireless / Pole Mounting

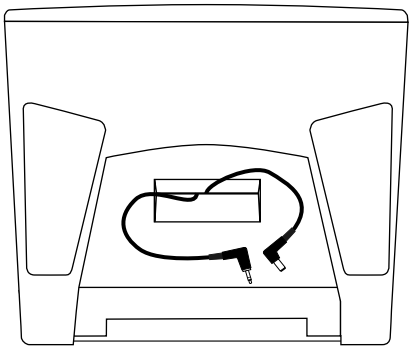


figure 1

As shown in figure 1 on the left, the top panel of the Expedition EX20 and EX30 provides a prewired compartment that accommodates any of three different Samson wireless receivers: the UM1 or M32 UHF models or the VM1 VHF model. Output signal from a wireless receiver mounted in an EX30 arrives at channel 2 of the onboard mixer.

Connecting a Micro Receiver to the Expedition

1 Remove the Wireless Compartment Cover by lifting it off the compartment located on the top of the Expedition. (see figure 1)

2 Gently take out the power and audio cables from the compartment.

3 Connect the power cable to the DC input jack on your Samson VM1, UM1 or M32 Receiver.

4 Connect the audio cable to the audio out jack on your Samson VM1, UM1 or M32 Receiver.

5 The audio signal from the receiver is sent to channel 2 on the EX30 mixer.

Pole Mounting - Procedures and Precautions

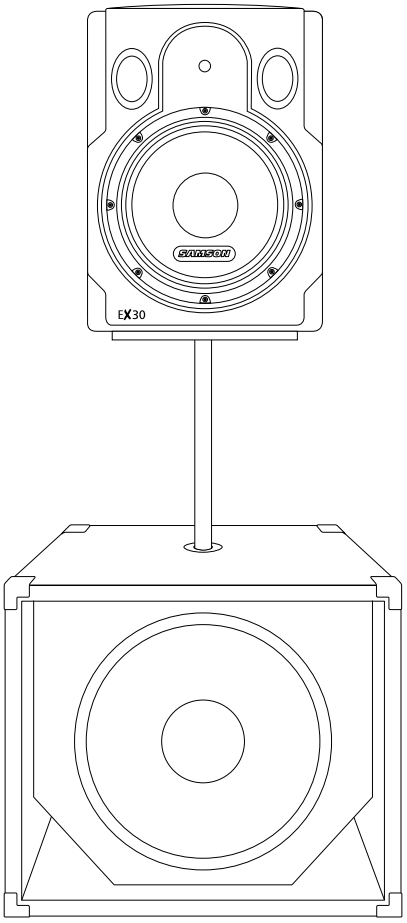
The underside of the Expedition contains a 1-3/8" stand mount socket that allows it to be raised up on any standard speaker pole mounting (such as the Ultimate Support Systems TS-30 or TS-33 speaker stands). Pole-mounting is generally advisable when you want to maximize the distance that the Expedition covers (sometimes called speaker “throw”).

If you are using an EX500 subwoofer, you can use its integral pole mount to place an EX10, EX20 or EX30 immediately above it, creating a complete column of sound.

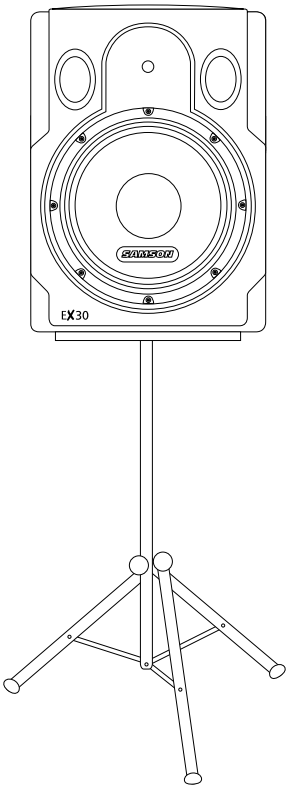
Use common sense when setting up speaker stands. Whenever pole mounting cabinets, make sure all fasteners are tight (or to the manufacturers specifications) and the stand can support the weight of the cabinet.

Set speakers and stands away from areas where people will be, taking care that stands will not be knocked into possibly causing injury from falling or tipping.

WARNING! Pole mounting of cabinets should be done by qualified personnel.
Samson assumes no responsibility, personal liability or liability for Expedition cabinets.



EX30 pole mounted on an EX500



EX30 pole mounted on a speaker stand

Specifications

MP1020 Mounting Plate

Dimensions

Weight

RB2030 Rechargeable Battery

Type 4 x 12VDC, 3.3 Amp/Hours Gel Cell

Charging time

Initial charge	8 hours
Additional charges	4 hours

Pin out for Cable and Charger (figure 1)

- Pin 1 NC
- Pin 2 CONTB (control one pin of relay for battery supply on/off)
- Pin 3 CONTA (control another pin of relay for battery supply on/off)
- Pin 4 VDC (Voltage supply for battery charging)
- Pin 5 AGND (Ground of Charger)
- Pin 6 -VBAT (Negative battery supply to power mon.)
- Pin 7 +VBAT (Plus battery supply to Power mon.)

Dimensions 8.25 in. (w) x 12.5 (d) x 5.25 (h)
209.5 mm (w) x 317.5 (d) x 133.35 (h)

Weight 12.8 lbs.
5.8 kg

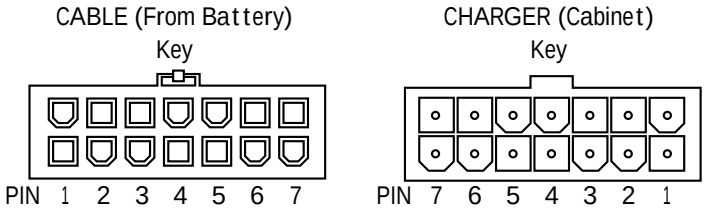


figure 1

TD30 Cassette Tape Deck

Transport Controls Record, Play, Rewind, Fast Forward, Stop/Eject, Pause

Pitch ±12%

Dimensions 7.125 in. x 6.378 x 2.75

Weight 1 lb 13.4 oz
0.83 kg

Pole Mounting Specifications:

EX10	28.5 lbs • 12.9 kg
EX20	42.0 lbs • 19.0 kg
EX30	45.0 lbs • 20.4 kg

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